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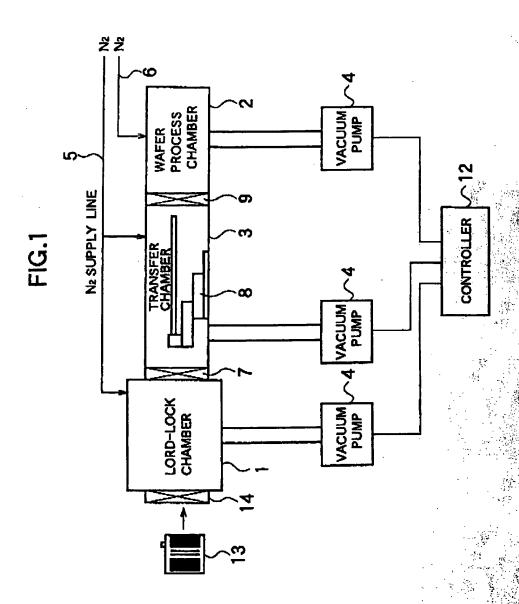
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#### FIG.2

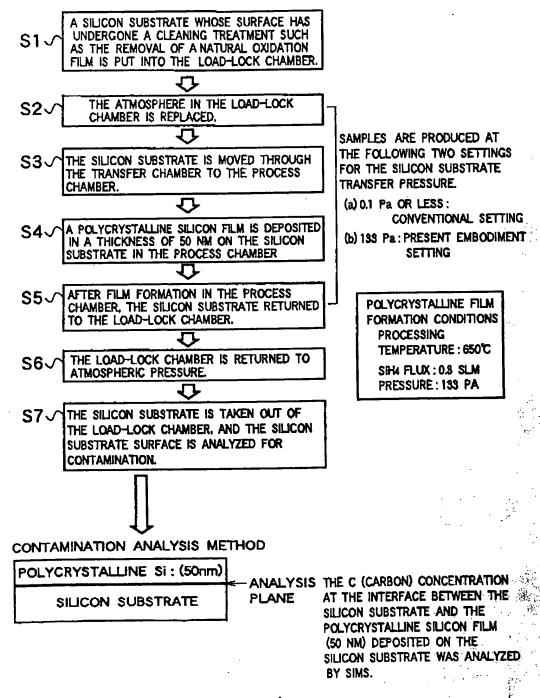


FIG.3

SUBSTRATE TRANSFER PRESSURE		CARBON CONCENTRATION (atoms/cm²)
(A) CONVENTIONAL SETTING	ATTAINABLE VACUUM TRANSFER 0.1Pa OR LESS	1.90×10 <sup>14</sup>
(B) PRESENT EMBODIMENT SETTING	133Pa	3.70×10 <sup>13</sup>

5.0×10<sup>12</sup> atoms/cm<sup>2</sup> (BEST DATA)

FIG.4

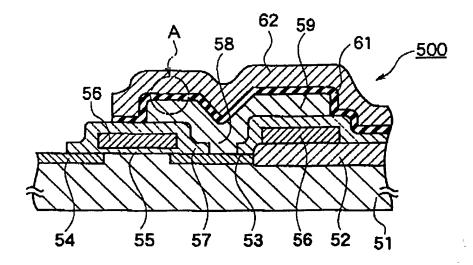


FIG.5

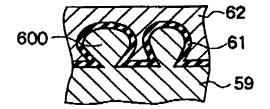
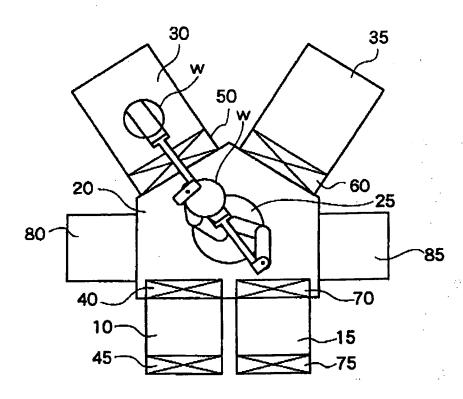
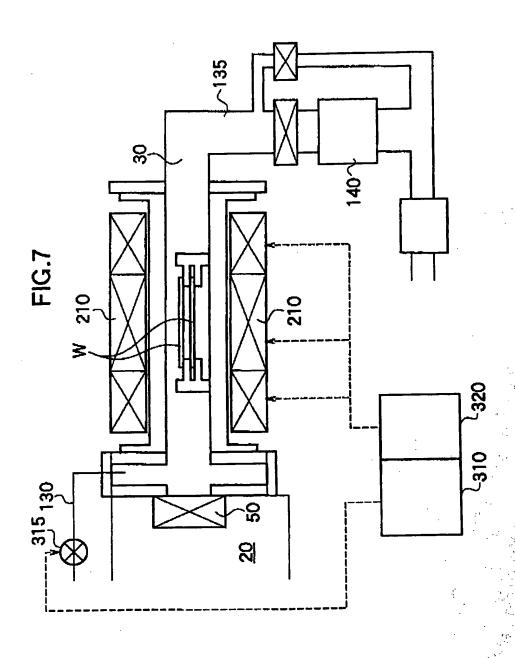
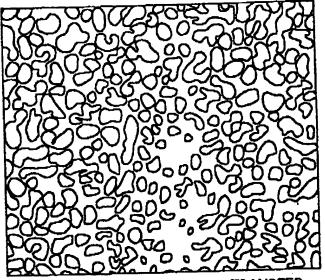


FIG.6



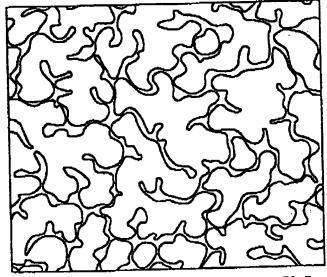


# FIG.8



WITH ATTAINABLE VACUUM TRANSFER INADEQUATE HSG FORMATION (LACK OF SURFACE BUMPINESS) DUE TO CONTAMINATION OF WAFER SURFACE

#### FIG.9



WITH NITROGEN GAS SUPPLY: 0.5 slm, 50 Pa ADEQUATE HSG FORMATION (VERY BUMPY SURFACE)